

Claims

That which is claimed is:

- 1) An isolated nucleic acid detection reagent that is capable of detecting the presence of 1000 or more genes from *Drosophila*, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.
- 2) The detection reagent of claim 1, wherein said reagent is a nucleic acid array.
- 3) The array of claim 2, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.
- 4) The array of claim 2, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.
- 5) An isolated nucleic acid detection reagent that is capable of detecting the presence of 2000 or more genes from *Drosophila*, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.
- 6) The detection reagent of claim 5, wherein said reagent is a nucleic acid array.
- 7) The array of claim 6, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.
- 8) The array of claim 6, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.
- 9) An isolated nucleic acid detection reagent that is capable of detecting the presence of 5000 or more genes from *Drosophila*, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.
- 10) The detection reagent of claim 9, wherein said reagent is a nucleic acid array.
- 11) The array of claim 10, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.
- 12) The array of claim 10, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 . . . 43001, 43004, 43007),

- 13) An isolated nucleic acid detection reagent that is capable of detecting the presence of 10,000 or more genes from *Drosophila*, wherein said genes are selected from the group consisting of SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.
- 14) The detection reagent of claim 13, wherein said reagent is a nucleic acid array.
- 15) The array of claim 14, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length.
- 16) The array of claim 15, wherein said array is comprised of polynucleotides based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 ... 43001, 43004, 43007), wherein said polynucleotides are from about 100 to about 1000 nucleotides in length.